

Comparisons of Job Characteristics

Focus Occupation: [Patternmakers, Metal and Plastic \(51-4062\)](#)

Associated Occupation: [Model Makers, Metal and Plastic \(51-4061\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)

Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	16.9	16.3	0	Current knowledge level may be sufficient
Production and Processing	6.0	12.5	10.6	<	Expanded education and/or training may be required
Mathematics	9.2	11.7	14.2	>	Current knowledge level is likely sufficient
Design	5.2	11.6	14.4	>	Current knowledge level is likely sufficient
Engineering and Technology	5.7	9.6	13.0	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)

Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	10.6	8.7	<	A higher skill level may be required
Quality Control Analysis	5.9	9.8	7.3	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	9.7	9.5	0	Current skill level may be sufficient
Troubleshooting	4.5	8.4	4.8	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	8.0	4.4	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	6.7	4.8	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 90			
Focus Occupation: Patternmakers, Metal and Plastic (51-4062) Associated Occupation: Model Makers, Metal and Plastic (51-4061)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	11.6	7.5	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.6	10.2	<	Some improvement in abilities may be required
Control Precision	6.6	10.7	10.0	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	10.6	10.7	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.5	9.2	<	Some improvement in abilities may be required
Auditory Attention	5.9	9.1	6.6	<<	Extensive improvement in abilities may be required
Rate Control	3.8	8.2	6.8	<	Some improvement in abilities may be required
Wrist-Finger Speed	3.2	6.9	4.6	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	6.6	3.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 100
Focus Occupation: Patternmakers, Metal and Plastic (51-4062) Associated Occupation: Model Makers, Metal and Plastic (51-4061)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Design tools or mechanical devices	85	
Determine tasks needed to complete machined products	87	
Examine products or work to verify conformance to specifications	15	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Identify base metals for welding	68	
Lay out machining, welding or precision assembly projects	63	
Monitor production machinery/equipment operation to detect problems	27	
Operate metal or plastic fabricating equipment/machinery	54	
Perform safety inspections in manufacturing or industrial setting	33	
Read blueprints	10	

Read specifications	23
Read technical drawings	7
Recognize characteristics of alloys	71
Recognize characteristics of metals	62
Set up and operate variety of machine tools	62
Set up computer numerical control machines	69
Set up production equipment or machinery	51
Solve machine tool problems	89
Understand machine setup instructions	74
Understand technical operating, service or repair manuals	6
Use arc welding equipment	62
Use hand or power tools	2
Use machining practices	92
Use non-destructive test equipment	82
Use precision measuring tools or equipment	17
Use x-ray or magnetic inspection techniques	84
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)
Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.